

Bibliography

BIBLIOGRAPHY



1. Abramson D., Robert S. M. and Wilson P. D. (1934): Relaxation of the pelvic joints in pregnancy. Surg Gynec and Obstet, 58; 595.
 2. Ahluwalia I. B., Grummer-Strawn L. and Seanlon K. S. (1997): Exposure to environmental tobacco smoke and birth outcome – increased exposure in pregnant women aged 30 years or older. Am J Epidemiol, 146 (1); 42 – 47.
 3. Alaily A. B. & Carrol K. B. (1978): Pulmonary ventilation in pregnancy. Br J Obstet Gynecol, 85; 518 – 524.
 4. Alexander G. (1978): Factors regulating the growth of placenta: With commence on the relationship between placenta weight and fetal weight. F. Naftolin ed. Abnormal fetal growth: Biological basis and consequences. Abakon Verlagsgesellschaft, Berlin, pg 149 – 164.
 5. Altman D. G. and Hytten F. E. (1989): Intrauterine growth retardation - Lets be clear about it. Br J Obstet and Gynec, 96; 1127-1128.
 6. Alward H. C. (1930): Observation on vital capacity during the last month of pregnancy and the puerperium. Am J Obstet and Gynec, 20; 373.
- Anderson G. J., James G. B., Mathers N. P., Smith E. L. and Walker J. (1969): The maternal oxygen tension and acid base status during pregnancy. J Obstet Gynecol Br Commonwealth, 76; 16-19.
7. Ang C. K., Tan T. H., Walters A. W. and Wood C. (1969): Postural influence on maternal capillary oxygen and carbon dioxide tension. Br Med J, 4; 201 – 203.
 8. Aronson R.A., Uttech S. and Soref M. (1993): Wis Med J, 92 (11); 613 – 617.
 9. Awad N. (1999): Pulmonary function tests. IJCP – Allergy and asthma, a clinical primer. Pg 28 – 34.

10. Awadh N. and Fleetham J. A. (1995): Asthma in pregnancy. *J S O G C*, 17; 27-31.
11. Awe R.J., Nicotra B., Newson T. D. and Viles R. (1979): Arterial oxygenation and alveolar-arterial gradients in term pregnancy. *Obstet Gynecol*, 53 (2); 182-186.
12. Bahna S. L. and Bjerkedal T. (1972): The course and outcome of pregnancy in women with bronchial asthma. *Acta Allergol*, 27; 397 - 406.
13. Baldwin G. R., Moorthi D. S., Whelton J. A., MacDonnell K. F. (1977): New lung functions and pregnancy. *Am J Obstet Gynecol*, 127 (3); 235.
14. Battaglia F. C. and Lubchenco L. O. (1967): A practical classification of newborn infants by weight and gestational age. *J Pediatr*, 71; 159.
15. Berend N. and Thurlback W. M. (1982): Correlation of maximum expiratory flow with small airway dimensions and pathology. *J Appl Physiol*, 52; 346 - 351.
16. Betz R. R., Bunnell M. D., Lambrecht-Mulier E. et al. (1987): Scoliosis and pregnancy. *J Bone Joint Surg*, 69 (A); 90.
17. Boddy K. (1979): Fetal blood flow to and from the placenta. In: G. V. P. Chamberlain, A. W. Wilkinson ed. *Placental transfer*. Pilman Medical, Tunbridge Wells. Pg 45 - 59.
18. Boggess K. A., Easterling T. R. and Raghu G. (1995): Management of and outcome of pregnant women with interstitial and restrictive lung disease. *Am J Obstet and Gynec*, 173; 1007 - 1014.
19. Borelli 1979
20. Bourne T., Ogilry A. J, Vickers R. and Williamson K. (1995): Nocturnal hypoxemia in late pregnancy. *Br J of Anaesth*, 75; 678-682.
21. Bowes W. A., Corke B. C. and Hulka J. (1989): Pulse oximetry - a review of the theory, accuracy and clinical applications. *Obstet Gynecol*, 74 (3 Pt 2); 541-546.

22. Bownes J. J., Wilson J. F. and Goodson D. (1961): Apnea, suction and hyperventilation—Effect on arterial oxygen saturation. *Anesthesiology*, 22; 29-33.
23. Brenner W. E., Edelman D. A. and Hendricks C. H. (1976): A standard of fetal growth for the United States. *Am J Obstet and Gynecol*, 126; 555.
24. Brown R. W., Henrahan J. P., Castile R. G. and Tager I. B. (1995): Effect of maternal smoking during pregnancy on passive respiratory mechanics in early infancy. *Pediatr Pulmonol*, Jan 19 (1); 23 – 28.
25. Brownell I. G., West P. and Kryger m. H. (1986): Breathing during sleep in normal pregnant women. *Am Rev Resp Dis*, 133; 38-41.
26. Buist A. S. (1989): Test of small airways function – Respiratory care, 34 (6); 446-454.
27. Burrow B., Huang N., Hughes R., et al, (1975): Pulmonary terms and symbols: A report of ACCP-ATS Joint commission on pulmonary nomenclature. *Chest*, 67; 583 – 598.
28. Butler J. & Bonica J. (1975): Respiratory functions in pregnant obese women. *Am J Obstet Gynecol*, 123; 241.
29. Butter N. R. and Albernien E. D. (1969): Perinatal problem: The second report of the 1958 British perinatal mortality survey. Livingston, Edinburgh.
30. Cameron S. J., Bain H. H. and Grant I. W. B.. (1970): Ventilatory functions in pregnancy. *Scott Med J*, 15; 243.
31. Campbell B. A. (1998): Utilizing sonography to follow fetal growth. *Obstet and Gynecol Clin of North Am*, 25 (3), 597-606.
32. Cander L. and Comroe J. H. J. (1955): A method for the objective evaluation of bronchodilator drugs: Effects of dopamine, isuprel and aminophylline in patients with bronchial asthma. *J Allergy Clin Immunol*, 26; 210 – 218.

33. Chhabra S., Nangia V. & Ingley K. N. (1988): Changes in respiratory function test during pregnancy. *Ind J Physiol Pharmacol*, 32 (1), 56 – 60.
34. Christianson R. E. (1979): Gross difference observed in the placentas of smokers and nonsmokers. *Am J Epidemiol*, 110; 178 – 187.
35. Clark L.C. (1956): Monitor and control of blood and tissue oxygen tensions. *Trans Am Soc Artif Intern Organs*, 2; 41-48.
36. Cnattingius S., Mills J. L., Yuen J., Erikson O. and Ros H. S. (1997): The paradoxical effect of smoking in preeclamptic pregnancies – Smoking reduces the incidence but increases the rates of perinatal mortality, abruption placentae and intrauterine growth restriction. *Am J Obstet and Gynec*, 177; 156-61.
37. Cochrane G. M., Prieto F. and Clark T. J. (1977): Intra-subject variability of maximal expiratory flow volume curve. *Thorax*, 32; 171 – 176.
38. Cohen D. E., Downes J. J. and Raphaely R. C. (1988): What difference does pulse oximetry make? *Anesthesiology*, 68; 181-183.
39. Coiso M., Ghezzi H., Hogg J. C., Corbin R., Loveland M., Dorman J., et al, (1978): The relation between the structural changes in small airways and pulmonary function tests. *New Eng J Med*, 298; 1277 – 1281.
40. Cole H. (1986): Studying reproductive risk in smoking. *JAMA*, 255; 22 – 23.
41. Comroe J. H. J. and Botelho S. (1947): The unreliability of cyanosis in the recognition of arterial anoxemia. *Am J Med Sci*, 214; 1 – 6.
42. Conray J. P. (1969): Smoking and anesthesia risk. *Anesth Analg*, 48; 388.

43. Contreras G., Guttierrez M. and Beroiza T.(1991): Ventilatory drive and respiratory muscles function in pregnancy. *Am Rev Resp Dis*; 144; 837 – 841.
44. Cook D. G., Strachen D. P. and Cary I. M. (1998): Health effects of passive smoking? Parental smoking and spirometric indices in children. *Thorax*, 53 (10); 884 – 93.
45. Cote C., Goldstein E. A., Cote M., Hoaglin D. C. and Ryan J. (1988): A single blind study of pulse oximetry in children. *Anesthesiology*, 68; 184-188.
46. Cotes J. E. (1965): Lung function assessment and application in medicine. 3rd ed, Blackwell Scientific Publications, Oxford, pg 345.
47. Craig D. B. and Toole M. A. (1975): Airway closure in pregnancy. *Canad Anesth Soc J*, 22; 665 - 72.
48. Crapo R. O., Morris A. H. and Gardner R. M. (1981): Reference spirometric values using techniques and equipments that meet ATS recommendations. *Am Rev Resp Dis*, 123; 859 – 864.
49. Cugell D. W., Frank W. R., Gaensler E. A and Badger T. L. (1953): Pulmonary function in pregnancy I. Serial observation in normal women *Am Rev Tuberc*, 67; 568-97.
50. DaCasta J. L, (1971): Pulmonary function studies in healthy Chinese adults in Singapore. *Am Rev Resp Dis*, 104; 128 – 131.
51. Das T. K. & Jana H. (1991): Maternal airways function during normal pregnancy. *Ind J Med Sci*, 45(10); 265.
52. Das T. K., Montquin J. M. and Parent J. G. (1991): Effect of cigarette smoking on maternal airway functions during pregnancy. *Am J Obstet Gynecol*, 165; 675 – 679.
53. Das T. K., Montquin J. M., Lindsay C., Parent J. G. and Fraser W. (1998): Effect of smoking cessation of maternal airway functions and birth weight. *Obstet & Gynecol*, August 92 (2); 201 – 205.

54. Das T.K. (1998): Effects of menstrual cycle on timing & depth of breathing at rest. *Indian J Physiol Pharmacol*, 42 (4); 498 – 502.
55. Davies D. P. and Gray O.P. (1976); Cigarette smoking in pregnancy: Association with maternal weight gain and fetal growth. *The Lancet*, Feb, 385 – 386.
56. Dawson A. (1965): Reproducibility of spirometric measurements in normal subjects. *Am Rev Resp Dis*, 93; 264.
57. Dayal P., Murata Y. and Takamura H. (1972): Antepartum and postpartum acid base changes in maternal blood in normal and complicated pregnancies. *J Obstet gynecol br Commonwealth*, 79; 612-24.
58. Dejin-Karlsson E., Henson B. S., Ostergren P. O., Sjoberg N. O. and Marsal K. (1998): Does passive smoking in early pregnancy increase the risk of small-for-gestational-age infants? *Am J public Health*, 88 (10); 1523-7.
59. Derenne J. P. H., Macklem P. T. and Roussos C. S. (1978): State of Art: The respiratory muscles: Mechanics, control and pathophysiology Part I. *Am Rev Respir Dis*, 119 – 133.
60. Desmukh J. S., Motghare D. D., Zodpey S. P. and Wadhwa S. K. : Low birth weight and associated maternal factors in an urban area.
61. Dombrowski M. P., bottom S. F., Beike G. M. and Wald J. (1986): Incidence of preeclampsia among asthmatics patients lower with theophylline. *Am J Obstet and Gynec*, 155; 265 – 267.
62. Douglas N. J. (1992): Nocturnal hypoxemia in patients with chronic obstructive pulmonary disease. *Clinics in chest Medicine*, 13 (3); 523 – 532.
63. Douglas N. J., Calverley P. M. A. et al, (1997): Transient hypoxemia during sleep in chronic bronchitis and emphysema. *Lancet*, 1; 1-4.

64. Duncun E. R. (1962): A textbook of obstetrics. W. B. Saunders Co. Philadelphia - London. 1st ed, chapter 8, p 175.
65. Eberhard P., Mindt W., Jann F. and Hammacher K. (1975): Continuous PO₂ monitoring in throughout neonate by skin electrodes. Med Biol Eng, 13; 436-442.
66. Enright L., Cole Y. Y. and Hitchcock F. A.: Basal metabolism and iodine excretion during pregnancy.
67. Fernando-Areas: Practical guide to high risk pregnancy and delivery. 2nd ed, Mosby Year Book, Inc.
68. Fevold H. L., Hisow F. L. and Meyer R. K. (1930): Isolation of the relaxative hormone of the corpus luteum. Proc Soc Exper Biol and Med, 27; 604.
69. Fishburne J. J. Jr., Brenner W. E., Braksme J. T. and Hendrcks C. H. (1972). Bronchospasm complicating intravenous prostaglandin-induced labor Am Rev Resp Dis, 111; 564-566.
70. Fitzsimmons R, Greenberger P. A. and Patterson R. (1986): Outcome of pregnancy in women requiring corticosteroids for severe asthma. J Allerg Clin Immunol, 78; 349 - 353.
71. Forbes J. F. and Smalls M. J. (1983): A comparative analysis of birth weight for gestational age standards. Br J Obstet and Gynec, 99; 297.
72. Gazioglu E., Kaltreider N. L., Rosen M. and Paul N. Y. (1970): Pulmonary functions during pregnancy in normal women and in patients with cardio-pulmonary disease. Thorax, 25; 445.
73. Gee J. B. L., Packero B. s., Millen J. E. and Robin E. D. (1967): Pulmonary mechanics during pregnancy. J Clin Invest, 46; 945-52.
74. Gerrard G. S., Littler W. A. and Redman C.W.G. (1978): Closing volume during normal pregnancy Thorax, 33; 488 - 92.
75. Gipson S. L. et al (1986): Pharmacologic reduction of the risk of aspiration. South Med J, 79; 11.

76. Gilbert R. and Auchincloss J. H. J. (1966): Dynamic of pregnancy – Clinical and physiological observation. *Am J Med Sci*, 252; 270 – 276.
77. Gluck J. C. and Gluck P. A. (1976): The effects of pregnancy on asthma – a prospective study. *Ann Allergy*, 37; 164 – 168.
78. Gluckman P. D. and Liggins G. C. (1984): Regulation of fetal growth, fetal physiology and medicine – The basis of perinatology. 2nd Revised Ed. Edited by Richard Beard and Perinatal Nathanidsz.
79. Goldie E. A. G. (1942): Device for continuous indication of oxygen saturation of circulating blood in man. *J Sci Instrum*. 19; 23-25.
80. Gordan M., Niswander K. R., Berendes H. et al, (1970): Fetal morbidity following potentially anoxigenic obstetric conditions. *Am J Obstet and Gynec*, 106; 421 - 429.
81. Gupta S. K. (1972): Pulmonary function tests. *J Ind Med Assoc*. 59; 73-74.
82. Harvey D., Prince J., Bunton J., et al, (1982): Abilities of children who were small-for-gestational-age babies. *Pediatrics*, 69; 296-300.
83. Hisaw F. L. (1925): The influence of the ovary on the resorption of the pubic bones of the pocket gopher-geomys bursarius (shaw). *J Exper Zool*, 42; 411.
84. Holdcraft A., Beran D. R., O'Sullivan J. C. and Sykes M. K. (1977): Airway closure and pregnancy. *Anesthesia*, 32; 517-23.
85. Holliday R. and Pugh J. E. (1975): DNA modification mechanisms and gene activity during development. *Science*, 187; 226-232.
86. Horta B. L., Victoria C. G., Menezes A. M., Halpern R. and Barros F. C. (1997): Low birth weight, preterm births and intrauterine growth retardation in relations to maternal smoking. *Paediatrc Perinat Epidemiol*, 11 (2); 140-151.

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87. Huch A., Huch R. and Lubbers D. W. (1969): Quantitative Polarographic Sauerstoffdruckmessung auf der Kopfhaut decreases neugeboren. Arch Gynakol, 207; 443-451.
88. Huch R., Huch A. and Lubbers D. W. (1973): Transcutaneous measurement of blood PO_2 ($tcPO_2$) – Method and application in perinatal medicine. J Perinat Med, 1; 183-191.
89. Hung C., Pelosi M., Langer A. and Harrison J. T. (1975): Blood gas measurements in the Kyphoscoliotic grvida and the fetus – report oxygen saturation a case. Am J Obstet and Gynec, 121; 287 – 288.
90. Hyatt R. E. (1955): Dynamic lung volumes. In Fenn W. O. and Rahn H. S. (eds): Handbook of physiology: A critical comprehensive presentation of physiological knowledge and concepts. Vol 1; Washington DC, American Physiological Society, 1381-1397.
91. Hyman A. L., Spannhake E. W. and Kadowitz P. I. (1978): Prostaglandins and the lungs: state of the arterial. Am Rev Resp Dis, 117; 111- 236.
92. Hytten F. E. and Leitch (1971): The physiology of human pregnancy. Blackwell-Scientific Publication, Oxford, 2nd ed. 1971.
93. Ihrman K. (1960): A clinical and physiological study of pregnancy in a material from Northern Sweden. III. Vital capacity and maximal breathing capacity during and after pregnancy. Acta Soc Med Upsalla, 65; 147-54.
94. Jaumiaux E. and Burton G. J. (1992): The effect of smoking in pregnancy on early placental morphology. Obstet Gynec, 579; 645 – 648.
95. Jedrychowski W. and Flak E. (1996): Confronting the prenatal effect of active and passive tobacco smoking birth weight of children. Cent Eur J Public Health, Sept 4 (3); 201-205.
96. Jensen K. (1953): Pregnancy and allergic diseases. Acta Allerg, 6; 44.

97. Jones R. N., Rosen M. and Seymour L. (1987): Smoking and anesthesia (editorial). *Anesthesia*, 42; 1.
98. Kalinka J. and Hanke W. (1996): Tobacco smoking – a risk factor for intrauterine growth retardation, preterm delivery and low birth weight. *Ginekol Pol*, Feb 97 (2); 75-81.
99. Kemm J. R. and Kamburoff P. L. (1970): Effort and forced emphysema volume in one second. *Clin Sci*, 39; 747.
100. Kendrick J. S. and Merritt R. K. (1996): Women and smoking: An update for the 1990's. *Am J Obstet and Gynec*, 175; 528 – 535.
101. King C. R. and Lovriell E. W. (1978): Chorangioma of the placenta and intrauterine growth failure. *J Pediatr*, 93; 1027 – 1028.
102. King T. E (1992): Restrictive lung disease in pregnancy. *Clinics in Chest Medicine*, 13 (4); 607-622.
103. Knudson R. J., Burrow B. and Lebowitz M. D. (1976): The maximal expiratory flow volume curve: Its use in the detection of ventilatory abnormalities in a population study. *Am Rev Respir Dis*, 114; 871 – 879.
104. Knuttgen H. G. & Emerson K. (1974): Physiological response to pregnancy at rest and during exercise. *J of Applied Physiol*, 36 (5); 549 – 553.
105. Kory R. c. (1963): Clinical spirometry – recommendations of the section on pulmonary function testing, Committee on pulmonary physiology, American College of Chest Physicians. *Dis Chest*, 43; 214.
106. Kramer M. (1987): Determinants of low birth weight: Methodological assessment and metaanalysis. *Bulletin WHO*, 65; 663.
107. Krammer K. (1935): Ein Verfahren zur fortlaufenden Messung des Sauerstoff gehaltes im stromenden blute on uneroffneten gefaßen. *Z Biol*, 96; 61-75.
108. Krammer M. S., Coates A. L., Michoud M. C., Dagenais S., Moshonas D., Davi G. M., Hamilton E. F., Nuwayhid B., Joshi A. K. Papageorgiou A., et al, (1995): Maternal asthma

and idiopathic preterm labor. *Am J Epidemiol*, 15, 142 (10); 1078 – 1088.

109. Kriesman H., Van-de-Wiel W. and Mitchell C. A. (1975): Respiratory function during prostaglandin induced labor. *Am Rev Respir Dis*, 111; 564-566.

110. Krunholtz R. A., Echt C. R. & Ross J.C. (1964): Pulmonary functions during pregnancy, pulmonary diffusion capacity, capillary blood volume, lung volume and mechanics of ventilation in early and late pregnancy. *J Lab and Clin Med*, 63; 648.

111. Lal S., Ferguson A. D. and Campbell E. J. M. (1964): Forced emphysema time – a simple test for airways obstruction. *Br Med J*, 1; 814.

112. Landt H. and Benjamin J. E. (1936): Cardiodynamic and electrocardiographic changes in normal pregnancy. *Am Heart J*, 12; 592.

113. Lao T. T. and Huengsburg M. (1990): Labor and delivery in mothers with asthma. *Eur J Obstet Gynecol Reprod Biol*, 35; 183 – 190.

114. Ling W. Y., Marsh J. M. and LeMaire W. J. (1977): Adenosine-3'5-monophosphate in the plasma from human pregnancy. *J Clin Endocrinol Metab*, 44; 514 – 519.

115. Longo L. D. (1976): Carbon monoxide effect on oxygenation of the fetus in uterus. *Science*, 194; 523-525.

116. Longo L. D. (1977): The biological effect of carbon monoxide on the pregnant women, fetus and newborn infant. *Am J Obstet and Gynec*, 129; 69-103.

117. Longo L. D. and Hill F. P. (1977): Carbon monoxide uptake and elimination in fetal and maternal sleep. *Am J Physiol*, 232; 324.

118. Longo L. D., Hill F. P. and Power G. G.: Oxygen transfer. In Longo L. D., Bartels H. (eds) (1972): *Respiratory*

gs exchange and blood flow to placenta. Bethesda, MD, Public health service. Pg 980.

119. Lynda F. Voigt L. F., Hollenbach K. A., Krohn M. A., Daling and Hickok D. E. (1990): The relationship of abruptio placentae with maternal smoking and small-for-gestational-age infants. *Obstet Gynecol*, 75; 771.

120. Lyons H. A. & Antonio R. (1959): The sensitivity of respiratory center in pregnancy and after the administration of progesterone. (Introduced by Perrin H. Long, Brooklyn, New York.) *Transactions Assoc Amer Physicians*, 72; 173 – 180.

121. Manheit A. G., Van Vunakis H. and Key T. C. (1983): Maternal and fetal cardiovascular effects of nicotine infusion in pregnant sheep. *Am J Obstet and Gynec*, 145; 290-296.

122. Manning F. A. and Platt L. D. (1979): Maternal hypoxemia and fetal breathing movements. *Obstet Gynecol*, 53 (6); 758-59.

123. Manning F. A., Walker D. and Feyarabond C. (1978): The effect of nicotine on fetal breathing movements in conscious pregnant ewes. *Obstet Gynecol*, 52; 563-568.

124. Marazzinni L., Carigioli G. Mastropasque B., et al, (1990): FEV₁ decline in asymptomatic young adults: Relationship with some tests of small airways function. *Eur Respir J*, 2; 817 – 821.

125. Martin T. R. and Bracken M. B. (1986): Association of low birth weight with passive smoke exposure in pregnancy. *Am J Epidemiol*, 124 (4); 663-42.

126. Mathai M., Vijayshri R., Sandhya Babu and Jeyaseelan L. (1992): Passive maternal smoking and birth weight in a South Indian population. *Br J Obstet and Gynec*, 99; 342-343.

127. Mattes K. (1935): Untersuchungen uber die Sauerstoff sattigung des merjchliden arterienblutis. *Arch Exp Path Pharmacol*, 179; 698-711.

128. McCarthy D. S. Craig D. B. and Cherniak R. M. (1975): Intra-individual variability in maximal expiratory flow volume and closing volume in asymptomatic subjects. *Am Rev Respir Dis*, 112; 407 – 411.
129. McFadden e. R. J. and Linden D. A. (1972): A reduction in maximum mid-expiratory flow rate: A spirographic manifestations of small airway disease. *Am J Med*, 52; 725 – 737.
130. McGuinty A.P., (1938): Comparative effects of pregnancy and phrenic nerve interruption on the diaphragm and their relation to pulmonary tuberculosis. *Am J Obstet and Gynec*, 35; 237-48.
131. Mead J. and Milic-Emili J. (1964): Theory and methodology in respiratory mechanics with glossary of symbols. In Fenn W. and Rahn H. (eds): *Handbook of physiology: Vol 1*; Washington DC, American Physiological Society, 363 – 376.
132. Mead J., Turner J. M., Macklem P. T. and Little J. B. (1967): Significance of the relationship between lung recoil and maximal expiratory flow. *J Appl Physiol*, 22; 95 – 108.
133. Mehta V. & Chakrabarty A. S.: Autonomic functions during different phases of menstrual cycle. *Ind J Physiol Pharmacol*; 1993, 37(1), 56 – 58.
134. Meneely G. R., Renzetti, A. D. J., Steele J. D., IDyatt J. P. and Harris H. D. (1962): Chronic bronchitis, asthma and pulmonary emphysema: A statement by the committee on diagnostic standards for non-tuberculous respiratory diseases. *Am Rev Resp Dis*, 85; 762 – 768.
135. Meridith H. C. (1970): Birth weights of variable human infants. A world wide comparative treatise. *Hum Biochemical*, 42; 217-64.
136. Merrick E. B. and Hayes J. J. (1976): Continuous measurement of arterial blood oxygen levels. *Hewlett-Packard Journal*, 28; 2-9.
137. Meschia G (1979): supply of oxygen to the fetus. *J Reprod Med*, 23; 160.
138. Metcalfe J. (1985): Oxygen supply and fetal growth. *J Reprod Med*, 30; 301.

139. Metcalfe J., Bissonnette J. M., Matsumoto J. A. and Bowles R. E. (1977): Oxygen supply and embryo growth in the hen's egg. *Proc Int Union Physiol Sci*, 13; 503.
140. Metcalfe J., Dhindra D. S., Novy M. J.: General aspects of oxygen transport in maternal and fetal blood. In Longo L. D., Bartels H. (eds) (1972): *Respiratory gas exchange and blood flow to placenta*. Bethesda, MD, Public health service. Pg 63.
141. Miller H. C. and Hassanien K. (1964): Maternal smoking and fetal growth of full term infants. *Pediatr Res*, 8; 960 - 963.
142. Millikan G. A. (1942): The oximeter, an instrument for measuring continuously the oxygen saturation of arterial blood in man. *Rev Scient Instruments*, 13; 434-444.
143. Milne J. A. (1979): The respiratory response to pregnancy. *Post Grad Med J*. 55; 318 - 324.
144. Milne J. A., Mills R. J., Howie A. D. & Pack A. I. (1977): Large airway functions during normal pregnancy. *Br J of Obstet Gynec*, 84; 448 - 451.
145. Minerbi-Codish I., Froner D., Avnum L., Glezerman M. and Heimer D. (1998): Influence of asthma in pregnancy on labor and newborn. *Respiration*, 65 (2); 130 - 105.
146. Mintz S. (1976): Pregnancy and asthma. In: Weiss E. D., Segal M. S. ed. *Bronchial asthma: Mechanics and therapeutics*. Boston, Little, Brown. Pg 971 - 982.
147. Mobie W. C. (1996): Asthma in pregnancy. *Clinical Obstetrics and Gynecology*, 39 (1); 56-69.
148. Mobie W. C., Barton J. R., Wanerstrum N. and Sibai B. M. (1992): Clinical observations on asthma in pregnancy. *J Mat Fet Med*, 1; 45 - 50.
149. Mobius W. A. and Schwangerschaft (1961): *Munchen Med Wochenshr*, 103, 1389-92.

150. Mokapatti R., Prasad E. C. and Vekataraman F. K. (1991): Ventilatory functions in pregnancy. *Indian J Physiol Pharmacol*, Oct 35 (4); 237 - 240.
151. Morris J. F., Koski A. and Johnson L. C. (1971): Spirometric standards for healthy non-smoking adults. *Am Rev Respir Dis*, 103; 57 - 67.
152. Morris N., Oswald S. B. and Wright H. P. (1956): Effective uterine blood flow during exercise in normal and preeclamptic pregnancies. *Lancet*, 2; 481 - 484.
153. Muller N. L., Francis P. W., Gurwitz D., Levison H. and Bryan C. (1980): Mechanism of hemoglobin desaturation during rapid eye movement sleep in normal subjects and in patients with cystic fibrosis. *American Review of Respiratory Disease*, Vol 121; 463-465.
154. Naeye R (1978): Effects of maternal cigarette smoking on the fetus and placenta. *Br J Obstet and Gynec*, 85; 732 - 737.
155. Nakajima S., Hira Y., Takare H., Kuze A., Aoyagi S., Kishi M. and Yamaguchi K. (1980): New Pube type ear-piece oximeter. *Kokyu-Tu Junkan*, 23; 41-45.
156. Nicoli L. (1932): Uber Sichtbar machung, Verlauf and chemische kinetic der oxyhemoglobin redktion in lebenden gewebe, besonders in der menschliden haut. *Flugers Archiv Fur Die Gesamte Physiologic*, 229; 372-384.
157. Nobel P. W., Lavee A. E. and Jacobs M. M. (1988): Respiratory diseases in pregnancy. *Obstet & Gynec Clinics North America*, 15; 391 - 428.
158. Norregard O., Schultz P., Ostergaard A. and Dahl R. (1989): Lung function and posture changes during pregnancy. *Resp Med*, 83; 467-470.
159. Novy M. J. and Edwards M. J. (1967): Respiratory problems in pregnancy. *Am J Obstet and Gynec*, 99; 1024.

160. Novy M. J., Peterson E. N. and Metcalfe J. A. (1968): Respiratory characteristics of maternal and fetal blood in cyanotic congenital heart disease. *Am J Obstet and Gynec*, 100; 821 – 828.
161. Novy M. J. (1978): Regulation of placental blood flow and oxygen transfer in relation to fetal growth. In: F. Naftolin ed. *Abnormal fetal growth: Biological basis and consequences*. Abakon Verlagsgesellschaft, Berlin, pg 229 – 256.
162. Novy M. J., Edwards M. J. (1962): Respiratory problem in pregnancy. *Am J Obstet and Gynec*, 99; 1024.
163. Ott W. J. (1997): Sonographic diagnosis of intrauterine growth retardation. *Clin Obstet and Gynecol*, 40 (4); 787-793.
164. Padreira F. A., Guandolo V. I., Mella G. W. and Weiss I. E. (1985): Involuntary smoking and incidence of respiratory illness during the first year of life. *Pediatrics*, 75; 594 – 597.
165. Pandya M. R., Nishith S. D. & Bhatt R. V. (1972): Pulmonary functions in pregnancy. *J Obstet Gynec of India*, 22 (1); 1.
166. Pare P. D. (1995): Conference summary. The Thomas- L-Petty 37th Aspen lung conference: Asthma structure and function. *Chest*, 107; 1635-1695
167. Parer J. T. (1987): Uteroplacental circulation and respiratory gas exchange. In Shnier S. M., Levinson L. C. (eds): *Anesthesia for obstetrics*. Baltimore, Williams and Wilkins, pg 14.
168. Pearce A. C. and Jones R. M. (1984): Smoking and anesthesia preoperative abstinence and postoperative morbidity. *Anesthesiology*, 61; 576.
169. Pearce A. C., Jones R. M. (1984): Smoking and anesthesia: Preoperative abstinence and peri-operative morbidity. *Anesthesiology*, 61; 576.
170. Perlow J. H., Montgomery D., Morgan M. A., Wud Towers C. V. and Porto M. (1992): Severity of asthma and perinatal outcome. *Am J Obstet and Gynec*, 167; 963 – 967.

171. Persson P., Grennert L., Gennser G. and Kullander S. (1978): A study of smoking and pregnancy with special reference to fetal growth. *Acta Obstet Gynecol Scan Suppl*, 78; 33 – 39.
172. Petersen L., Handel J., Kotch J., Podedworny T. and Rosen A. (1992): Smoking reduction during pregnancy by a program of self help and clinical support. *Obstet Gynecol*, 79; 924-30.
173. Petty T. L., Silvers G. W. and Stanford R. E. (1981): Functional correlation with mild and moderate emphysema in excised lungs. *Am Rev Respir Dis*, 124; 700 – 704.
174. Pirani B. B. K. (1978): Smoking during pregnancy. *Obstet Gynecol Surg*, 33; 1 – 13.
175. Pollack R. N. and Divon M. Y. (1992): In intrauterine growth retardation: Definition, classification and etiology. *Clin Obstet Gynecol*, 35 (1); 99 – 184.
176. Pride N. (1990): Assessment of long time changes in airway functions agents action. 30; 21 – 34.
177. Pride n. B., Permutt S., Riley R. L. and Bromberger-Barnea B. (1967): Determinants of expiratory flow from the lungs. *J Appl Physiol*, 22; 95 – 108.
178. Pritchard M. G. and Musk A. W. (1984): Adverse effects of pregnancy on familial fibrosing alveolitis. *Thorax*, 39; 319 – 320.
179. Prowse C.M. & Gaensler E. A. (1965): Respiratory and acid-base changes during pregnancy. *Anaesthesiology*, 26; 381 – 392.
180. Puranik B. M., Kaore S. B., Kurhade G. A., Agrawal S. D., Patwardhan S. A. and Kher J. R. (1994): A longitudinal study of pulmonary function tests during pregnancy. *Indian J Physiol Pharmacol*, 38 (2); 129 – 132

181. Rajesh C. S, Gupta P. & Vaney N. (2000): Status of pulmonary function tests in adolescent females of Delhi. *Indian J Physiol Pharmacol*, 44 (4); 442 – 448.
182. Rand P. W., Norton J. m., Barker N. D. et al (1973): Response to graded hypoxia at high and low 2,3-diphosphoglycerate concentrations. *J Appl Physiol*, 34; 827-832.
183. Rao G. S., Rajan P. and Walter S. (1991): Expiratory flow rate changes during the menstrual cycle. *Indian J Physiol Pharmacol*, 35 (1); 74 – 76.
184. Ratto D., Balmes J., Baylen T. and Sharma O. P. (1988): Pregnancy in a woman with severe pulmonary fibrosis secondary to hard metal disease. *Chest*, 93; 663 – 665.
185. Raz S., Zeiglar M. & Caine M. (1973): Effect of progesterone on the adrenergic receptors of urethra. *Br J Urol*, 45; 131 – 135.
186. Robertson P. A., Sniderman S. h., Laros R. K., et al (1992); Neonatal morbidity according to gestational age and birth weight from fine tertiary care centers in the US, 1983-1986. *Am J Obstet and Gynec*, 166; 1629.
187. Root H. F. and Root H. K. (1923): The basal metabolism during pregnancy and the puerperium. *Arch. Int. Med.* 32; 411.
188. Rosner S. W., Abraham S. and Caceres C. A. (1965): Observer variation in spirometry. *Dis Chest*, 48; 265.
189. Rubin A., Russo N. and Goucher D. (1956): The effect of pregnancy upon pulmonary function in normal women. *Am J Obstet and Gynec*, 72; 963.
190. Rubin A., Russo N. and Goucher D. (1956): The effect of pregnancy at rest and during exercise. *J Appl Physiol*, 72; 963 – 969.

191. Rubin D.H., Krasilnikoff P. A., Levnthal J. M., Weile B. and Berget A. (1986): Effect of passive smoking on birth weight. *The Lancet*, Aug; 415-417.
192. Sachs B. P. (1989): The effect of smoking on late pregnancy outcome. *Seminar in reproductive endocrinology*. 7(4); 315-325.
193. Schaefer G. and Silverman F. (1961): Pregnancy complicated by asthma. *Am J Obstet and Gynec*, 82; 182 – 191.
194. Schatz M. and Zeiger R. S. (1988): The course of asthma during pregnancy, postpartum and with successive pregnancies – a prospective analysis. *J Allergy Clin Immunol*, 81; 509 – 517.
195. Schatz M. et al. (1975): Corticosteroid therapy for pregnant asthmatic patient. *JAMA*, 233; 804.
196. Schatz M., Zeiger R. O. and Hoffman C. P. (1990): Intrauterine growth retardation related to gestational pulmonary functions in pregnant asthmatic women – Kaiser Permanente Asthma and pregnancy study group. *Chest*, 98; 389 – 392.
197. Schatz M., Zeiger R. O. and Hoffman C. P. (1995): Perinatal outcome in the pregnancies of asthmatics women – a prospective controlled analysis. *Am J Resp Crit Care Med*, 151; 1170 – 1174.
198. Schoenberg J. B., Beck G. J. and Bouhuys A. (1978): Growth and decay of pulmonary function in healthy blacks and whites. *Resp Physiol*, 33; 367 – 393.
199. Schoene, R. B., Pierson D. J., Robertson H. T., & Alan P. P. (1981): Respiratory drives and exercise in menstrual cycle of atheletic and nonatheletic women. *The American Physiological Society*, 1300 – 1305.

200. Sciscione A. C., Gorman R. and Callan N. A. (1996): Adjustment of birth weight standards for maternal and infants characteristics improves the prediction of outcome in the small-for-gestational-age infants. *Am J Obstet and Gynec*, 175; 544-547.
201. Seeds J. W. (1984): Impaired fetal growth- Definition and clinical diagnosis. *Obstet Gynecol*, 64; 303-310.
202. Seeker-Walker R. H., Pamella M. B., Vecak M., Flynn B. S. and Mead P. B. (1997): Smoking in pregnancy, exhaled CO and birth weight. *Obstet & Gynecol*, 89 (5); 647 – 652.
203. Shanklin D. R. (1978): Anatomy of the placenta. In: F Falkner and J. M. Tanner ed. *Human growth*. Vol I, Plenum, New York. pg 323- 353.
204. Shaw J. O. and Moser K. N. (1975): The current status of prostaglandins and the lungs. *Chest*, 68; 75 – 80.
205. Shearman R. P. (1972): *Human reproductive physiology*. Blackwell Scientific publications. Oxford – London. 1st ed., pg 656.
206. Sims C. D., Chamberlin G. V. P. and Swiet M. De. (1976): Lung function tests in bronchial asthma during and after pregnancy. *Br J Obstet and Gynec*, 83 (6); 434.
207. Singhal U. and Saxena K. (1987): Effect of anemia on respiratory and metabolic parameters during third trimester of pregnancy. *Indian J Physiol Pharmacol*, 31 (2); 131 – 135.
208. Skandan K. P., Mehta Y. B., Shah V. M. and Parikh S. R. (1977): Pulmonary functions during last trimester and after delivery. *J Obstet and Gynec of India*, 27 (1); 86.
209. Squire J. R. (1940): Instrument for measuring quantity of blood and its degree of oxygenation in web of the hand. *Clin Sci*, 4; 331-339.
210. Steniers – Aarniala B., Purila P. and Teramo K. (1988): Asthma and pregnancy – a prospective study of 198 pregnancies. *Thorax*, 43; 12 – 18.

211. Sulavik S. B. (1975): Pulmonary disease. In: Burrow G. N. and Ferris T. F. (eds). Medical complications during pregnancy. Philadelphia, W. B. Saunders; 549 – 625.
212. Teirstein A. S. (1965): Bronchiectasis. In: Rovinsky J. J. and Guttmacher A. F. (ed). Medical, surgical and gynecologic complications of pregnancy. Baltimore; Williams and Wilkins, 144 – 149.
213. Templeton A. (1977): Intrauterine growth retardation associated with hyoxia due to bronchiectasis. Br J Obstet and Gynec, 84; 389-390.
214. Templeton A. and Kelman G. R. (1976): Maternal blood gases ($P_{AO_2} - P_{aO_2}$), physiological shunt and V_D/V_T in normal pregnancy. Br J Anaesth, 48; 1001-4.
215. Thomson K. J. and Cohen M. E. (1938): Studies on the circulation in pregnancy. II. Vital capacity observation in normal pregnant women. Surg. Gynec and Obstet, 66 (I): 591.
216. Tirosh E., Libon D. and Bader D. (1996): The effect of maternal smoking during pregnancy on sleep respiratory and arousal pattern in neonates. J Perinatal, 16 (6); 435 – 438.
217. Turner E. S., Greenberger P. A. and Patterson R. (1980): Management of the pregnant asthmatic patient. Ann Int Med, 62; 692.
218. Usandizaga M., Madero R. and Conde M. (1987): Tobacco and pregnancy – weight of the newborn infant and weight gain of the mothers. Zentralld Gynakol, 109 (14); 893 – 897.
219. Van Geijn et al, (1980): Induction of severe IUGR in the Sprague Dawley rat. Am J Obstet and Gynec, 137; 43-47.
220. Van-Hooke J. W., Harvey C. J. and Anderson G. D. (1996): Effect of pregnancy on maternal oxygen saturation values – use of reflectaree pulse oximetry during pregnancy. South Med J, 89 (12); 1188-92
221. Vestbo J., Knudson K. and Rasmussen F. (1990): Predictive value of the single breath nitrogen test for hospitalization due to respiratory disease. Lung, 168; 93 – 101.

222. Weinberger S. E., Weiss S. T., Cohen W. R., Weiss J. W. and Johnson T. S. (1980): State of art: pregnancy and the lung. *Am Rev Resp Dis*, 121; 559 – 581.
223. Werteleck W., Hoff C. and Zansky S. (): Maternal smoking – greater effects on males, fetal tobacco syndrome.
224. Weuters E. J., de Jong P. A., Cornelissen P. J., Kurver P. H., Van Oel W. C. and Van Weensal C. L. (1987): Smoking and low birth weight – absence of influence by carbon monoxide? *Eur J Obstet Gynecol Reprod Biol*, May 25 (1); 35 – 41.
225. Widlund G. (1945): The cardio-pulmonary function during pregnancy. *Acta Obstet Gynec Scand*, 25; Suppl (I), 1945. Quoted from Hytten F. E. and Leitch I.
226. Williams D. A. (1967): Asthma and pregnancy. *Acta Allerg*, 22; 311.
227. Williams R. L., Creasy R. K., Cunningham G. C., Hawes W. E., Norris M. A. and Tashird M. S. (1982): Fetal growth and perinatal variability in Clifornia. *Obstet Gynecol*, 59; 624.
228. Williams R. L , Creasy R. K., Cunningham G. C., Hawes W. E., Norris M. A. and Tashiro M. S. (1982): Fetal growth and perinatal variability in California. *Obstet Gynecol*, 59; 624.
229. Winick M. (1971): Cellular changes during placental and fetal growth. *Am J Obstet and Gynec*, 109; 166.
230. Winick M. (1971): Cellular changes during placentaland fetal growth. *Am J Obstet and Gynec*, 109; 166.
231. Wisberg K., Henriksen T. G., Hedegaard M. and Secher N. J. 91996): Smoking during pregnancy and preterm birth. *Br J Obstet and Gynec*, 108; 800-805.
232. Wood E.H. and Geraci J. E. (1949): Photoelectric determination of arterial saturation in man. *J Lab Clin Med*, 34; 387-401.

233. WuWen S., Goldenberg R. L., cutter G. R., Hoffman H. J., Cliver S. L., Davis R. O. and Dubard M. B. 1990): Smoking, maternal age, fetal growth and gestational age at delivery. *Am J Obstet and Gynec*, 162; 53-58.
234. Wyne J. W., Block A. J. et al, (1979): disordered breathing and oxygen desaturation during sleep in patients with COPD. *Am J Medicine*, 66; 573-579.
235. Yannone M. E., McCurdy J. R. and Goldfien A. (1968): Plasma progesterone levels in normal pregnancy, labor and the puerperium. *Am J Obstet and Gynec*, 101; 1058 – 1061.
236. Yerushalmy J. (1962): Smoking habits of father and weight of infant. In: James G, Rosenthal T. ed. Springfield Illinois, C. C. Thomas, pg 216 – 226.
237. Yoshiya I., Shimada Y. and Tanaka K. (1980): Spectrophotometric monitoring of arterial oxygen saturation in the fingertips. *Med Biol Eng Comput*, 18; 27-32.
238. Ziment I. (1978): Respiratory pharmacology and therapeutics. Philadelphia: W B Saunders.
239. Zimmer-Z-Etan and Divon M. Y. (1992): Sonographic diagnosis of IUGR macrosomia. *Clinical Obstet and Gynecol*, 35 (1); 172-183.

SUMMARY OF THE THESIS ENTITLED



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Submitted to
The Maharaja Sayajirao University of Baroda,
Gujarat State, INDIA.

For the award of
DOCTOR OF PHILOSOPHY
(MEDICAL – PHYSIOLOGY)

REGISTRATION NO: 000361

Dated: 03 – 03 – 98

P/Th
10573

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